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SNOW SURVEYS AND IRRIGATION WATER FORECASTS

FOR

MISSOURI AND ARKANSAS RIVER BASINS

May 1, 1937.

The following data pertaining to snow surveys and irrigation water-supply forecasts are provided by the Bureau of Agricultural Engineering, U. S. Department of Agriculture, in cooperation with State departments, other Federal bureaus and local organizations. 1/

Status of precipitation as of October 1 to May 1: For Montana it is reported that the average accumulative precipitation for this period in the western part was 8.36 inches or 84 percent of normal; for the central part of the state the precipitation was 4.93 inches or 85 percent of normal. Twenty-one precipitation stations, 6,000 feet or more in elevation, east of the divide in Wyoming show the precipitation to be 85 percent of normal. Precipitation in the South Platte River Basin is 70 percent of normal. Seven precipitation stations, 6,000 feet or more in elevation, in the Arkansas River Basin show the precipitation to be 94 percent of normal.

In the Laramie River Basin in Colorado and Wyoming most of the low snow has melted with a resulting increase in stream flow. The soil is thoroughly saturated. The snow cover in the high areas is good and will give a sustained run-off until July. It is expected that the flood flow in the tributaries will occur somewhat earlier this year than formerly. For the North Platte the prospects are good for a normal run-off.

In the Powder and Big Horn basins in Wyoming, soil moisture conditions are reported to be fair and are improved over that of April first. For Colorado the soil moisture is good; crops are starting rapidly; and little or no water is being used for irrigation except for truck gardening.

Water held in snow storage on the South Platte River drainage basin on May 1, based on the records from six courses, was 76 percent of the amount at this time last year. The same comparison for the Arkansas Valley drainage basin based on records from six courses is 68 percent.

The attached table showing the storage in reservoirs, as of May 1, indicates the following: The Pathfinder Reservoir on the North Platte is 68 percent of the past ten-year average and is better than that of last year at this time. It is expected that this reservoir will fill to normal capacity. For ten principal reservoirs in the South Platte, the storage on May 1 was approximately 125 percent of that a year ago at this time. Reservoir storage in the tributary areas of the South Platte is practically the same as last year especially in the Poudre Valley. An improvement in storage is noted for the Arkansas Valley over that of last year.







## MISSOURI RIVER BASIN

Tributary Basins (Primary & Secondary & Snow Courses)	State	Sec. : or	Location		Range	Elev.	May 1, Snow Course Measurements		
			Latitude & Longitude	Twp.			Average Snow Depth 1937 (Inches)	Average Water Depth 1936 (Inches)	1936. 1936. (Inches)
JEFFERSON RIVER									
Camp Creek <u>2</u> /	Idaho	21	13N	36E		6800	Trace	Trace	---
East Fork R. Sta. <u>2</u> /	Mont.	16	2W	17W		5400	0.0	0.0	---
Elkhorn Hot Springs	Mont.	15	4S	12W		8000	22.5	7.8	4.9
Gibbons Pass	Mont.	4	2S	19W		7000	56.4	20.7	17.6
Moose Creek <u>2</u> /	Idaho	22 & 27	27N	21E		6200	40.0	13.1	---
Storm Lake <u>2</u> /	Mont.	19	4N	13W		8135	27.0	7.2	---
MADISON RIVER									
Aster Creek <u>2</u> /	Wyo.	Lat. 44° 17'	Long. 110° 27'			7700	77.0*	30.0*	40.0*
Big Springs <u>2</u> /	Idaho	34	14N	44E		6500	41.1	17.9	---
Hebgen Lake	Mont.	22	11S	3E		6550	17.0	6.8	0.6
Lewis Lake Divide <u>2</u> /	Wyo.	Lat. 44° 13'	Long. 110° 40'			7900	103.0*	43.0*	55.0*
Twenty-one Mile <u>3</u> /	Mont.	1	11S	5E		7150	27.7	12.1	6.6
Valley View <u>2</u> /	Idaho	7	15N	44E		6500	31.1	12.2	---
West Yellowstone	Mont.	34 & 35	13S	5E		6700	13.6	5.9	2.8
GALLATIN RIVER									
Devils Slide	Mont.	11 & 14	5S	6E		8300	67.0	20.3	17.6
Hood Meadow	Mont.	22	4S	6E		6600	22.0	7.3	---
Mystic Lake No. 1	Mont.	31	3S	7E		6600	3.0	1.0	---
Mystic Lake No. 2	Mont.	31	3S	7E		6600	12.0	4.0	---
Twenty-one Mile <u>3</u> /	Mont.	1	11S	5E		7150	28.0	12.1	6.6
Upper Hyalite	Mont.	25	4 S	6E		6760	16.2		
Hood Meadow Extension	Mont.	--	--	--		--	25.0	6.8	0.3

\*Observations made April 16.





Tributary Basins (Primary & Secondary & Snow Courses)	Location				Elev.	May 1, Snow Course Measurements				
	State	Sec. : or Latitude & Longitude	Twp.	Range		Average Snow Depth 1937 (Inches)	Average Snow Depth 1936 (Inches)	Average Water Depth 1936 (Inches)		
MISSOURI RIVER (Between Helena & Great Falls)										
Tennile Creek										
Chessman Reservoir	Mont.	2	8N	5W	6200	11.0	---	3.4	---	
Tennile Creek, Lower	Mont.	13	8N	6W	6250	8.0	---	2.2	---	
Tennile Creek, Middle	Mont.	13	8N	6W	7000	23.0	---	6.9	---	
Tennile Creek, Upper	Mont.	19	8N	5W	8000	31.5	---	9.9	---	
Little Prickley Pear Creek										
Stemple Pass	Mont.	16	13N	7W	6900	23.0	1.0	7.1	0.6	
Smith Creek										
Kings Hill	Mont.	35	13N	7E	7800	39.8	28.0	12.6	12.2	
Sun River										
Goat Mountain	Mont.	Lat. 47°31', Long. 112°55'			7000	15.1	5.0	4.7	1.8	
MARIAS RIVER										
Desert Mountain 2/	Mont.	24	31N	19W	5600	33.0	---	13.5	---	
Marias Pass	Mont.	Lat. 48°19', Long. 113°21'			5200	28.2	7.9	13.9	3.8	
MILK RIVER										
Grace Lake 2/	Mont.	14	35N	19W	4500	0.0	---	0.0	---	
Kintla Creek No. 4 2/	Mont.	6	37N	21W	4300	0.0	---	0.0	---	



Name		Age	Sex	Height	Weight	Measurements	Remarks	Notes
John Doe		25	M	5'8"	150	100	Good	100
Jane Smith		22	F	5'4"	120	80	Good	80
Robert Johnson		30	M	6'0"	180	120	Good	120
Mary White		28	F	5'6"	140	90	Good	90
William Brown		35	M	6'2"	200	140	Good	140
Elizabeth Green		24	F	5'5"	130	85	Good	85
Thomas Black		32	M	6'1"	190	130	Good	130
Margaret Gray		26	F	5'7"	145	95	Good	95
Charles King		38	M	6'3"	210	150	Good	150
Anna Lee		23	F	5'3"	110	75	Good	75
George Hall		31	M	6'0"	185	125	Good	125
Helen Miller		27	F	5'6"	135	92	Good	92
Frank Davis		33	M	6'1"	195	135	Good	135
Grace Wilson		25	F	5'5"	125	88	Good	88
Edward Moore		36	M	6'2"	205	145	Good	145
Lillian Taylor		24	F	5'4"	115	82	Good	82
Harold Clark		34	M	6'3"	215	155	Good	155
Dorothy Baker		26	F	5'6"	138	94	Good	94
Clarence Evans		37	M	6'4"	220	160	Good	160
Mildred Foster		23	F	5'3"	112	78	Good	78
Walter Adams		32	M	6'1"	192	132	Good	132
Bertha Nelson		25	F	5'5"	128	86	Good	86
Roy Phillips		35	M	6'2"	208	148	Good	148
Evelyn Turner		24	F	5'4"	118	84	Good	84
Louis Wright		33	M	6'3"	212	152	Good	152
Norma Scott		26	F	5'6"	132	96	Good	96
Albert Green		36	M	6'4"	225	165	Good	165
Betty Adams		23	F	5'3"	114	80	Good	80
Howard Baker		34	M	6'2"	202	142	Good	142
Gladys Clark		25	F	5'5"	122	84	Good	84
Eugene Evans		37	M	6'4"	222	162	Good	162
Frances Foster		24	F	5'4"	116	86	Good	86
Clifford Adams		32	M	6'1"	194	134	Good	134
Dorothy Nelson		25	F	5'5"	130	90	Good	90
Roy Phillips		35	M	6'2"	210	150	Good	150
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	State	Sec.	Twp.	Range		Average Snow Depth 1937 (Inches)	Average Snow Depth 1936 (Inches)	Average Water Depth 1937 (Inches)	Average Water Depth 1936 (Inches)
<u>YELLOWSTONE RIVER</u>									
<u>Headwaters of Yellowstone River</u>									
Cooke City	Mont.	25	9S	14E	7400	16.0	---	5.5	---
Clark Fork									
Lodge Pole Creek	Wyo.	32	56N	106W	8200	0.0	---	0.0	---
<u>Shoshone River</u>									
Brooks Lake No. 1 <u>2</u> /	Wyo.	25	44N	110W	9000	61.8	49.5	19.8	27.6
Brooks Lake No. 2 <u>2</u> /	Wyo.	23	44N	110W	9200	33.5	---	11.0	---
Sylvan Pass	Wyo.	Lat. 44° 29', Long. 110° 02'	44N	110W	7127				
Togwotee Pass <u>2</u> /	Wyo.	29	44N	110W	9600				
Upper Hardpan	Wyo.	25	51N	106W	9500	45.7	---	12.3	---
<u>Big Horn River</u>									
Brooks Lake No. 1	Wyo.	25	44N	110W	9000	61.8	49.5	19.8	27.6
Brooks Lake No. 2	Wyo.	23	44N	110W	9200	0.0	0.0	0.0	0.0
Dunrude Dude Ranch	Wyo.	21	46N	103W	8000	30.4	24.0	8.3	8.0
Ranger Creek	Wyo.	32	53N	88W	8800	27.6	22.0	7.8	7.4
Roaring Fork	Wyo.	7	31N	101W	10200	10.8	0.0	3.4	0.0
Shell Creek R. Sta.	Wyo.	19	53N	88W	7700	8.0	2.6	3.3	1.4
Sheridan Creek R. Sta.	Wyo.	3	42N	109W	7500	25.3	0.0	7.0	0.0
Tensleep R. Sta.	Wyo.	30	49N	86W	8300				
Togwotee Pass	Wyo.	29	44N	110W	9600	14.0	17.0	4.0	4.5
Whortten Meadow	Wyo.	18	31N	101W	9200				
<u>Tongue River</u>									
Big Goose Creek R. Sta.	Wyo.	4	53N	86W	7700	9.8	0.0	3.6	0.0







Tributary Basins (Primary & Secondary & Snow Courses)	State	Location : Sec. : or Latitude & Longitude	Twp. : Range	Elev.	May 1, Snow Course Measurements			
					Average 1937 (Inches)	Snow Depth 1936 (Inches)	Average 1937 (Inches)	Water Depth 1936 (Inches)
<u>Powder River</u>								
Red Fork	Wyo.	18	43N	7500	18.8	--	5.8	--
Sour Dough	Wyo.	17	49N	8500	28.7	--	6.8	--
<u>NORTH PLATTE RIVER</u>								
<u>Headwaters North Platte</u>								
Big Creek Lake	Colo.	9	11N	9000	--	--	--	--
Bottle Creek	Wyo.	24	14N	8200	41.7	25.1	16.7	11.3
Columbine Lodge	Colo.	21	5N	9300	42.4	48.0	17.4	23.5
Headquarters Park	Wyo.	27	16N	10100	77.3	76.8	23.4	35.2
North Barrett Creek	Wyo.	27	16N	9400	58.9	44.5	17.0	22.6
Old Battle	Wyo.	25	14N	9800	98.5	79.1	39.6	34.2
Park View	Colo.	24	5N	9200	18.0	5.2	5.9	1.6
Ryan Park	Wyo.	30	16N	8400	29.1	8.2	7.4	3.1
Webber Springs	Wyo.	27	14N	9000	65.6	56.3	26.6	25.7
West Portal Greeley-								
Poudre Tunnel	Colo.	7	8N	8600	13.6	4.8	4.2	1.9
<u>Sweetwater River</u>								
Grannier Meadows	Wyo.	19	30N	9000	46.6	--	16.1	--
<u>Laramie River</u>								
Brooklyn Lake	Wyo.	11	16N	10200	56.8	58.0	23.5	34.0
Fox Park	Wyo.	21	13N	9200	21.6	17.4	6.9	9.0
Hairpin Turn	Wyo.	24	16N	9000	34.0	30.6	12.4	13.5
Libby Lodge	Wyo.	29	16N	8800	5.9	0.0	2.3	0.0





Tributary Basins (Primary & Secondary & Snow Courses)	Location				Elev.	May 1. Snow Course Measurements			
	State	Sec.	Twp.	Range		1937 (Inches)	1936 (Inches)	1937 (Inches)	1936 (Inches)
SOUTH PLATTE RIVER									
Big South	Colo.	33	8N	75W	8600	0.0	0.0	0.0	0.0
Cameron Pass	Colo.	2	6N	76W	10285	54.2	65.2	20.1	27.4
Chambers Lake	Colo.	6	7N	75W	9000	2.1	12.2	0.9	5.7
Deadman Hill	Colo.	26	10N	75W	10950	43.0	--	14.5	--
East Portal Moffat Tunnel	Colo.	2	2S	74W	9400	0.0	0.0	0.0	0.0
Fairplay	Colo.	33	9S	77W	10000	0.0	0.0	0.0	0.0
Hidden Valley	Colo.	24	5N	74W	9000	--	1.8	--	0.7
Hoosier Pass	Colo.	13	8S	78W	11400	13.6	28.9	5.2	12.4
Jefferson Creek	Colo.	23	7S	76W	10050	0.0	--	0.0	--
Loveland Pass	Colo.	27	4S	76W	10100	25.4	37.4	7.9	13.8
Pole Mountain	Wyo.	35	15N	72W	8700	--	0.0	--	0.0
Wild Basin	Colo.	24	3N	74W	10000	28.5	39.8	9.4	16.5
ARKANSAS RIVER									
Four Mile Park	Colo.	23	11S	81W	9700	0.0	0.0	0.0	0.0
Fremont Pass	Colo.	2	8S	79W	11300	32.7	36.5	9.4	16.5
LaVeta Pass	Colo.	23	23S	70W	10500	2.7	0.0	1.0	0.0
Marshall Creek	Colo.	24	48N	6E	10846	21.1	20.3	7.3	8.3
Poncha Creek	Colo.	19	48N	7E	10500	8.8	5.9	3.1	2.6
Tennessee Pass	Colo.	21	8S	80W	10200	3.1	9.2	1.1	3.8
Twin Lakes Tunnel	Colo.	22	11S	82W	10125	16.8	22.0	4.9	8.3
Whiskey Creek	Colo.	31	32N	67W	10250	10.2	--	4.2	--

1/The snow measurements are made principally by field personnel of the following Federal Government organizations: Forest Service, National Park Service, Geological Survey, Bureau of Reclamation; and Montana Agricultural Experiment Station. This work is otherwise conducted cooperatively with the War Department, the State Engineers of Wyoming and Colorado, U. S. Geological Survey, Montana and Colorado Agricultural Experiment Stations, and various municipalities, irrigation associations, power companies, and others.

2/In adjacent drainage.

3/ Common to two drainages.

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Reservoir Storage in Acre-feet, Colorado and Wyoming, as of May 1, for the Years 1928 to 1937 inclusive  
 Columns A and B - Percentage May 1, 1937 of capacity and 10-year average respectively.  
 Based on data gathered by the State Engineer of Colorado and the U. S. Bureau of Reclamation  
 Units are thousands of acre-feet.

Reservoir	Capacity Ac-ft	1928 Ac-ft	1929 Ac-ft	1930 Ac-ft	1931 Ac-ft	1932 Ac-ft	1933 Ac-ft	1934 Ac-ft	1935 Ac-ft	1936 Ac-ft	1937 Ac-ft	10-yr Avg. Ac-ft	A %	B %
<b>COLORADO</b>														
Cheeseman	79.0	71.8	66.8	79.1	79.1	48.0	8.4	43.4	18.7	32.0	48.7	49.6	62	98
Marston	19.8	14.8	14.5	16.6	17.8	13.1	14.6	17.1	13.8	14.2	16.7	15.3	84	109
Barr	32.2	28.0	29.9	28.4	29.6	10.2	12.0	17.8	7.4	11.4	20.0	19.5	62	102
Milton	24.4	20.4	19.6	19.2	20.4	7.4	4.9	10.5	1.8	3.5	11.0	11.9	45	92
Riverside	57.5	50.4	55.7	50.4	54.8	41.8	12.8	45.7	12.7	44.1	47.0	41.6	82	113
Empire	37.7	33.6	35.9	33.5	34.4	27.1	22.2	24.7	0.0	18.6	24.7	25.5	65	97
Jackson	35.4	32.7	34.5	34.5	35.0	33.5	33.2	33.4	31.7	31.2	33.4	33.3	94	100
Prewitt	32.8	26.3	27.9	27.0	25.5	21.8	9.8	23.2	4.2	12.0	19.2	19.7	59	97
Point of Rocks	65.0	51.5	62.2	49.2	53.0	22.2	29.4	60.0	30.1	56.8	64.3	47.9	99	134
Julesburg	28.2	20.9	21.8	22.6	22.8	22.6	20.3	21.9	22.8	22.0	20.9	21.9	74	95
Twin Lakes	57.9	20.2	18.7	20.4	13.5	5.9	5.9	6.6	13.8	14.5	14.4	13.4	25	107
Meredith	26.0	17.3	27.7	25.3	25.9	2.5	Dry	Dry	Dry	Dry	3.0*	10.2	12	29
Horse Creek	26.9	9.9	6.3	10.9	12.8	Dry	4.3	"	"	"	7.9	5.2	29	152
Adobe Creek	61.6	23.3	29.2	56.9	46.3	Dry	Dry	"	"	"	1.7	15.7	3	11
Model	17.8	8.4	8.9	9.7	14.4	6.4	Dry	2.7	"	2.6	1.8	5.5	10	33
Standley	18.5	16.2	13.6	17.1	13.1	3.4	1.4	0.0	2.8	13.4	15.8	9.7	85	163
Marshall	10.3	3.8	3.8	5.7	3.3	1.3	1.8	3.1	0.1	4.1	6.0	3.3	58	182
Loveland	14.3	10.5	1.5	11.0	8.9	0.8	0.0	2.1	0.7	3.0	1.0	4.0	7	25
Mariano	5.4	4.4	4.3	5.0	5.3	3.0	3.1	3.3	0.4	3.0	3.0	3.5	55	86
Union	12.7	9.3	7.5	8.8	9.1	3.0	0.6	4.1	0.0	2.9	7.5	5.3	59	142
Windsor Res.	18.6	12.6	13.6	16.9	12.7	7.9	4.2	11.8	2.8	11.2	10.5	10.4	56	101
Cache la Poudre	9.5	8.9	8.9	9.2	8.9	4.4	5.0	9.1	2.8	5.7	7.3	7.0	77	104
Fossil Creek	11.6	9.2	11.7	11.6	11.6	4.3	6.1	11.2	2.9	8.1	7.1	8.4	61	85
Terry	9.8	5.1	5.8	7.1	5.0	4.0	4.1	4.4	4.1	4.2	4.1	4.8	42	85
Halligan	6.4	5.6	5.0	6.4	5.3	2.0	1.6	2.0	3.0	2.9	4.1	3.8	64	108
Chambers Lake	6.8	4.7	2.9	6.2	3.0	2.0	2.3	4.0	0.7	2.8	2.4	3.1	35	77
<b>WYOMING</b>														
Pathfinder	1070.0	900.1	815.6	906.0	613.1	352.5	404.7	331.8	133.2	263.5	343.8	506.4	32	68
Guernsey	71.6	37.0	49.4	60.2	57.9	50.1	63.8	37.6	24.8**	44.7**	37.5**	46.3	69	81

\*Estimated.

\*\*Based on Capacity of 54,610 Acre-Feet

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